

Amendments to the Claims

Claims 1-61 (cancelled).

Claim 62 (new): A reactive precursor feeding manifold assembly,
comprising:

an elongate body having a first end extending along a longitudinal axis to a second end, the body defining a tubular chamber having a continuous sidewall with the first end defining a head of the body and the second end defining a flange encompassing an opening defined by the sidewall of the body;

a head elongated segment extending from the head along the axis to a single inlet valve, the head segment being aligned along the axis with the opening and in fluid communication with the chamber; and

a plurality of lateral elongate segments extending from the sidewall normal to the axis, individual ones of the lateral segments being in fluid communication with the chamber and extending to individual multi-inlet valves.

Claim 63 (new): The assembly of claim 62 wherein the flange is configured to couple to a deposition chamber.

Claim 64 (new): The assembly of claim 62 wherein the lateral segments are stacked along the sidewall of the chamber, the segments including a top segment proximate the head and bottom segment proximate the opening.

Claim 65 (new): The assembly of claim 64 wherein the multi-inlet valves are stacked, the multi-inlet valves including a top valve coupled to the top segment and a bottom valve coupled to the bottom segment.

Claim 66 (new): The assembly of claim 65 wherein the multi-inlet valves include only two inlets and the inlets are aligned normal to one another.

Claim 67 (new): The assembly of claim 65 wherein the multi-inlet valves include only two valves and the valves are aligned normal to one another.

Claim 68 (new): The assembly of claim 65 wherein the multi-inlet valves include a proximal portion and distal portion, the proximal portion defining openings for the valves and inlets, the distal portion being substantially planar.

Claim 69 (new): The assembly of claim 68 wherein the plane of the distal portion is aligned normal to the axis of the chamber.